

## Claims

What is claimed is:

- Sub A1
- 1 1. A method for generating a model representing devices and  
2 interconnections of the devices within an information handling system and using the  
3 model to control the devices, the method comprising:  
4 identifying first and second devices connected to the information handling  
5 system;  
6 storing a first device object representing the first identified device and a second  
7 device object representing the second identified device;  
8 identifying an interconnection between the first identified device and the second  
9 identified device; and  
10 storing an interconnect object representing the interconnection between the first  
11 identified device with the second identified device, wherein the stored  
12 first and second device objects and interconnect object form at least part  
13 of the model.
  - 1 2. The method according to claim 1, further comprising the step of using the  
2 model to control operation of at least one of the first device and the second device.
  - 1 3. The method according to claim 2, further comprising the steps of:  
2 identifying an input of at least one of the first device and the second device; and  
3 storing an input object in the model representing the identified input.
  - 1 4. The method according to claim 3, further comprising the steps of:  
2 identifying an output of at least one of the first device and the second device; and  
3 storing an output object in the model representing the identified input.
  - 1 5. The method according to claim 1, wherein the identifying step comprises  
2 querying a user to identify the first and second device.

1 6. The method according to claim 5, wherein the querying step comprises  
2 providing a user interface for communicating queries to the user.

1 7. The method according to claim 5, wherein the querying step is initiated  
2 by the user.

1 8. The method according to claim 5, wherein the querying step is initiated  
2 by the information handling system.

1 9. The method according to claim 5, where the identifying step further  
2 comprises querying the user to set an attribute of at least one of the first and second  
3 devices.

1 10. The method according to claim 5, wherein the identifying step further  
2 comprises querying the user to specify if at least one of the first and second devices may  
3 be controlled by a remote control.

1 11. The method according to claim 1, further comprising the step of saving  
2 the model in persistent memory.

1 12. A computer readable medium whose contents cause a computer-based  
2 information handling system to execute method steps for generating a model representing  
3 devices and interconnections of the devices within the information handling system and  
4 using the model to control the devices, the method steps comprising:

5 identifying first and second devices connected to the information handling  
6 system;

7 storing a first device object representing the first identified device and a second  
8 device object representing the second identified device;

9 identifying an interconnection between the first identified device and the second  
10 identified device; and

11 storing an interconnect object representing the interconnection between the first  
12 identified device with the second identified device, wherein the stored  
13 first and second device objects and interconnect object form at least part  
14 of the model.

1 13. The computer readable medium according to claim 12, whose contents  
2 further cause the computer-based information handling system to perform the step of  
3 using the model to control operation of at least one of the first device and the second  
4 device.

1 14. The computer readable medium according to claim 13, whose contents  
2 further cause the computer-based information handling system to perform the method  
3 steps of:

4 identifying an input of at least one of the first device and the second device; and  
5 storing an input object in the model representing the identified input.

1 15. The computer readable medium according to claim 13, whose contents  
2 further cause the computer-based information handling system to perform the method  
3 steps of:

4 identifying an output of at least one of the first device and the second device; and  
5 storing an output object in the model representing the identified input.

1 16. The computer readable medium according to claim 12, wherein the  
2 identifying step comprises querying a user to identify the first and second device.

1 17. The computer readable medium according to claim 16, wherein the  
2 querying step comprises displaying a user interface on a display of the information  
3 handling system for providing the queries to the user.

1 18. The computer readable medium according to claim 16, wherein the  
2 identifying step further comprises querying the user to set an attribute of at least one of  
3 the first and second devices.

1 19. The computer readable medium according to claim 16, wherein the  
2 querying step is initiated by the user.

1 20. The computer readable medium according to claim 16, wherein the  
2 querying step is initiated by the information handling system.

1 21. The computer readable medium according to claim 12, wherein the  
2 identifying step further comprises querying the user to specify if at least one of the first  
3 and second devices may be controlled by a remote control.

1 22. The computer readable medium according to claim 12, whose contents  
2 further cause the computer-based information handling system to perform the method  
3 step of saving the model in persistent memory.

1 23. A system for generating a model representing devices and  
2 interconnections of the devices within an information handling system and using the  
3 model to control the devices, comprising:

4 means for identifying first and second devices connected to the information  
5 handling system;

6 means for storing a first device object representing the first identified device and  
7 a second device object representing the second identified device;

8 means for identifying an interconnection between the first identified device and  
9 the second identified device; and

10 means for storing an interconnect object representing the interconnection  
11 between the first identified device with the second identified device,  
12 wherein the stored first and second device objects and interconnect object  
13 form at least part of the model.

1 24. The system according to claim 23, further comprising means for using the  
2 model to control operation of at least one of the first device and the second device.

1 25. The system according to claim 24, further comprising:  
2 means for identifying an input of at least one of the first device and the second device;  
3 and  
4 means for storing an input object in the model representing the identified input.

1 26. The system according to claim 24, further comprising:  
2 means for identifying an output of at least one of the first device and the second device;  
3 and  
4 means for storing an output object in the model representing the identified input.

1 27. The system according to claim 23, wherein the identifying means  
2 comprises means for querying a user to identify devices interconnected with the  
3 information handling system.

1 28. The system according to claim 23, wherein the identifying means further  
2 comprises means for querying the user to set an attribute of at least one of the first and  
3 second devices.

1 29. The system according to claim 23, wherein the identifying means further  
2 comprises means for querying the user to specify if at least one of the first and second  
3 devices can be controlled by a remote control.

1 30. The system according to claim 23, further comprising means for saving  
2 the model in persistent memory.

1           31. A system for generating a model representing devices and  
2 interconnections of the devices within an information handling system and using the  
3 model to control the devices, comprising:

4           a user interface for providing communication with a user to identify devices  
5           interconnected with the information handling system; and

6           a model generator for generating a model representing the identified devices and  
7           the interconnection of the identified devices with each other and the  
8           information handling system.

1           32. The system according to claim 31, further comprising a system controller  
2 for using the generated model to control operation of at least one of the identified  
3 devices.

1           33. The system according to claim 31, wherein the user interface comprises  
2 a graphical user interface displayed on a display of the information handling system.

1           34. The system according to claim 31, wherein the user interface comprises  
2 an audio interface.

1           35. The system according to claim 31, further comprising persistent memory  
2 for storing the model.

1 36. A computer-based information handling system having one or more  
2 peripheral devices interconnected therewith, said information handling system  
3 comprising:

4 a central processing system for processing information;

5 memory interconnected with the central processing system for storing  
6 information;

7 a display system interconnected with the central processing system for displaying  
8 information;

9 an input/output system interconnected with the processing system for inputting  
10 and outputting information; and

11 a system for generating a model representing devices and interconnections of the  
12 devices within an information handling system and using the model to  
13 control the devices, comprising:

14 a user interface for providing communication with a user to identify  
15 devices interconnected with the information handling system; and

16 a model generator for generating a model representing the identified  
17 devices and the interconnection of the identified devices with each  
18 other and the information handling system.

1 37. The computer-based information handling system according to claim 36,  
2 further comprising a system controller for using the generated model to control operation  
3 of at least one of the identified devices.

1 38. The computer-based information handling system according to claim 36,  
2 wherein the user interface comprises a graphical user interface displayed on a display of  
3 the information handling system.

1 39. The computer-based information handling system according to claim 36,  
2 wherein the user interface comprises an audio interface.



1                    40.    The computer-based information handling system according to claim 36,  
2    further comprising persistent memory for storing the model.

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